AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in this application.

Listing of Claims:

- 1. (ORIGINAL) A multi-functional composition for use as an additive for fuels and lubricants comprising an amination product of a hydrocarbyl substituted succinic acylating agent and a mixture comprising an aliphatic polyamine and an aromatic polyamine, wherein the molar ratio of aliphatic polyamine to aromatic polyamine in the mixture ranges from about 10:0.1 to about 0.1:10, and wherein the amination product contains at least about 0.1 molar equivalent of the polyamine mixture to 1 molar equivalent of the hydrocarbyl substituted succinic acylating agent.
- 2. (Previously submitted). The composition of claim 1, wherein the aliphatic polyamine comprises a substantially linear aliphatic aminepolyamine.
- 3. (ORIGINAL) The composition of claim 1, wherein the hydrocarbyl substituted succinic acylating agent comprises a compound of the structure:

- 4. (ORIGINAL) The composition of claim 3, wherein R comprises polyisobutylene (PIB).
 - 5. (ORIGINAL) The composition of claim 1, wherein a molar ratio of acylating

agent to amino groups in the mixture ranges from about 1:1 to about 6:1.

6. (Previously submitted) The composition of claim 1, wherein the aromatic polyamine comprises a compound selected from the group consisting of N-phenyl-phenylenediamine, N-naphthyl-phenylene diamine, and substituted aromatic polyamines of the structure:

$$R^{1}$$
 Ar $-N$ R^{2}

wherein Ar is an aromatic group, R¹ is selected from the group consisting of H, —NH₂, —NH-aryl-NH₂, —NH-aryl-alkyl-NH₂, —NH-alkyl-NH₂, or aminoalkyl wherein alkyl is a branched or straight chain radical having 4 to 24 carbon atoms, and R² is selected from the group consisting of —NH₂, —NH(CH₂)_n)_mNH₂, —CH₂-(CH₂)_n-NH₂, and —aryl-NH₂, in which n and m have a value of from 1 to 10, and R³ is selected from the group consisting of —H, alkyl, alkenyl, alkoxy, arylalkyl, and alkaryl having 4 to 24 carbon atoms and with the proviso that only one of R² and R³ has a terminal NH₂ group.

- 7. (ORIGINAL) A lubricant composition comprising an oil of lubricating viscosity and from about 0.1 to 10 wt. %, based on the total weight of the lubricant composition, of the amination product of claim 1.
- 8. (ORIGINAL) A vehicle having moving parts and containing a lubricant for lubricating the moving parts, the lubricant comprising an oil of lubricating viscosity and from about 0.1 to 10 wt. %, based on the total weight of the lubricant composition, of the amination product of claim 1.
- 9. (ORIGINAL) A method for making a novel amination product for use as an additive for fuels and lubricants, the amination product having combined dispersant

and antioxidant functionality, the method comprising the steps of:

providing a hydrocarbyl substituted succinic acylating agent to a reaction vessel:

heating the acylating agent to an elevated temperature above room temperature;

contacting an aromatic polyamine with an aliphatic polyamine to provide a polyamine mixture, wherein the molar ratio of aliphatic polyamine to aromatic polyamine in the mixture ranges from about 10:0.1 to about 0.1:10; and

reacting the amine mixture with the heated acylating agent under an inert atmosphere to provide the novel amination product, wherein the amination product contains at least about 0.1 molar equivalent of the polyamine mixture to 1 molar equivalent of the hydrocarbyl substituted succinic acylating agent.

- 10. (ORIGINAL) The method of claim 9, wherein the polyamine mixture and acylating agent are reacted in the substantial absence of a surfactant.
- 11. (CURRENTLY AMENDED) The method of claim 9, wherein the aliphatic polyamine comprises a substantially linear aliphatic amine polyamine.
- 12. (ORIGINAL) The method of claim 9, wherein the hydrocarbyl substituted succinic acylating agent comprises a compound of the structure:

wherein R comprises a hydrocarbyl group having a number average molecular weight as determined by gel permeation chromatography ranging from about 200 to about 10,000.

13. (ORIGINAL) The method of claim 12, wherein R comprises polyisobutylene (PIB).

- 14. (ORIGINAL) The method of claim 9, wherein a molar ratio of acylating agent to amino groups in the mixture ranges from about 1:1 to about 6:1.
- 15. (Previously submitted) The method of claim 9, wherein the aromatic polyamine comprises a compound selected from the group consisting of N-phenyl-phenylenediamine, N-naphthyl-phenylene diamine, and substituted aromatic polyamines of the structure:

$$R^{1}$$
 Ar $-N$ R^{2}

wherein Ar is an aromatic group, R^1 is selected from the group consisting of H_1 , $-NH_2$, -NH-aryl- NH_2 , -NH-aryl-alkyl- NH_2 , -NH-alkyl- NH_2 , or aminoalkyl wherein alkyl is a branched or straight chain radical having 4 to 24 carbon atoms, and R^2 is selected from the group consisting of $-NH_2$, $-NH(CH_2)_n)_mNH_2$, $-CH_2$ - $(CH_2)_n$ - NH_2 , and -aryl- NH_2 , in which n and m have a value of from 1 to 10, and R^3 is selected from the group consisting of -H, alkyl, alkenyl, alkoxy, arylalkyl, and alkaryl having 4 to 24 carbon atoms and with the proviso that only one of R^2 and R^3 has a terminal NH_2 group.

- 16. (ORIGINAL) A multifunctional composition for use as an additive for fuels and lubricants comprising an amination product made by the method of claim 9.
- 17. (ORIGINAL) A lubricant composition comprising an oil of lubricating viscosity and from about 0.1 to 10 wt.%, based on the total weight of the lubricant composition, of the multifunctional composition of claim 16.
- 18. (ORIGINAL) A fuel composition comprising a hydrocarbyl fuel and from about 0.1 to about 15.0 weight percent based on the total weight of the fuel composition, of the multifunctional composition of claim 16.
 - 19. (ORIGINAL) A lubricant additive comprising an amination product of a

hydrocarbyl substituted succinic acylating agent and a mixture comprising at least one aliphatic polyamine and at least one aromatic polyamine, wherein the molar ratio of aliphatic polyamine to aromatic polyamine in the mixture ranges from about 10:0.1 to about 0.1:10, and wherein the amination product contains at least about 0.1 molar equivalent of the aromatic polyamine to 1 molar equivalent of the hydrocarbyl substituted succinic acylating agent.

- 20. (ORIGINAL) The lubricant additive of claim 19, wherein the aliphatic polyamine comprises a substantially linear aliphatic amine.
- 21. (ORIGINAL) The lubricant additive of claim 19, wherein the hydrocarbyl substituted succinic acylating agent comprises a compound of the structure:

- 22. (ORIGINAL) The lubricant additive of claim 21, wherein R comprises polyisobutylene (PIB).
- 23. (ORIGINAL) The lubricant additive of claim 19, wherein a molar ratio of acylating agent to amino groups in the mixture ranges from about 1:1 to about 6:1.
- 24. (CURRENTLY AMENDED) The lubricant additive of claim 19, wherein the aromatic polyamine comprises a compound selected from the group consisting of N-phenyl-phenylenediamine, N-naphthyl-phenylene diamine, and substituted aromatic polyamines of the structure:

$$R^{1}$$
 Ar $-N$ R^{2}

wherein Ar is an aromatic group, R¹ is selected from the group consisting of H₇, —NH-aryl-NH₂, —NH-aryl-alkyl-NH₂, —NH-alkyl-NH₂ or aminoalkyl wherein alkyl is a branched or straight chain radical having 4 to 24 carbon atoms, and R² is selected from the group consisting of —NH₂, —NH(CH₂)_n)_mNH₂, —CH₂-(CH₂)_n-NH₂, and —aryl-NH₂, in which n and m have a value of from 1 to 10, and R³ is selected from the group consisting of —H, alkyl, alkenyl, alkoxy, arylalkyl, and alkaryl having 4 to 24 carbon atoms and with the proviso that only one of R² and R³ has a terminal NH₂ group.

- 25. (ORIGINAL) A lubricant composition comprising an oil of lubricating viscosity and from about 0.1 to 10 wt.%, based on the total weight of the lubricant composition, of the lubricant additive of claim 19.
- 26. (ORIGINAL) A fuel additive comprising an amination product of a hydrocarbyl substituted succinic acylating agent and a mixture containing an aliphatic polyamine and an aromatic polyamine, wherein the molar ratio of aliphatic polyamine to aromatic polyamine in the mixture ranges from about 10:0.1 to about 0.1:10 and wherein the amination product contains at least about 0.1 molar equivalent of the polyamine mixture to 1 molar equivalent of the hydrocarbyl substituted succinic acylating agent.
- 27. (ORIGINAL) The fuel additive of claim 26, wherein the aliphatic polyamine comprises a substantially linear aliphatic amine.
- 28. (ORIGINAL) The fuel additive of claim 26, wherein the hydrocarbyl substituted succinic acylating agent comprises a compound of the structure:

wherein R comprises a hydrocarbyl group having a number average molecular weight as determined by gel permeation chromatography ranging from about 200 to about 10,000.

- 29. (ORIGINAL) The fuel additive of claim 28, wherein R comprises polyisobutylene (PIB).
- 30. (ORIGINAL) The fuel additive of claim 26, wherein a molar ratio of acylating agent to amino groups in the mixture ranges from about 1:1 to about 6:1.
- 31. (Previously submitted) The fuel additive of claim 26, wherein the aromatic polyamine comprises a compound selected from the group consisting of N-phenyl-phenylenediamine, N-naphthyl-phenylene diamine, and substituted aromatic polyamines of the structure:

$$R^{1}$$
 Ar $-N$

wherein Ar is an aromatic group, R¹ is selected from the group consisting of H, —NH₂, —NH-aryl-NH₂, —NH-aryl-alkyl-NH₂, —NH-alkyl-NH₂, or aminoalkyl wherein alkyl is a branched or straight chain radical having 4 to 24 carbon atoms, and R² is selected from the group consisting of —NH₂, —NH(CH₂)_n)_mNH₂, —CH₂-(CH₂)_n-NH₂, and —aryl-NH₂, in which n and m have a value of from 1 to 10, and R³ is selected from the group consisting of —H, alkyl, alkenyl, alkoxy, arylalkyl, and alkaryl having 4 to 24 carbon atoms and with the proviso that only one of R² and R³ has a terminal NH₂ group.

- 32. (ORIGINAL) A fuel composition comprising a fuel and from about 0.1 to 15 wt. %, based on the total weight of the fuel composition, of the fuel additive of claim 26.
- 33. (ORIGINAL) A method of lubricating moving parts of a vehicle, the method comprising using as a lubricating oil for one or more moving parts of the vehicle a lubricant composition containing a lubricant and a lubricant additive, the lubricant additive including an amination product of a hydrocarbyl substituted succinic acylating agent and a mixture containing an aliphatic polyamine and an aromatic polyamine, wherein the molar ratio of aliphatic polyamine to aromatic polyamine in the mixture ranges from about 10:0.1 to about 0.1:10, and wherein the amination product contains at least about 0.1 molar equivalent of the polyamine mixture to 1 molar equivalent of the hydrocarbyl substituted succinic acylating agent.
- 34. (ORIGINAL) The method of claim 33, wherein the aliphatic polyamine comprises a substantially linear aliphatic amine.
- 35. (ORIGINAL) The method of claim 33, wherein the hydrocarbyl substituted succinic acylating agent comprises a compound of the structure:

- 36. (ORIGINAL) The method of claim 35, wherein R comprises polyisobutylene (PIB).
- 37. (ORIGINAL) The method of claim 33, wherein a molar ratio of acylating agent to amino groups in the mixture ranges from about 1:1 to about 6:1.

38. (Previously submitted) The method of claim 33, wherein the aromatic polyamine comprises a compound selected from the group consisting of N-phenyl-phenylenediamine, N-naphthyl-phenylene diamine, and substituted aromatic polyamines of the structure:

$$R^{1}$$
 Ar $-N$ R^{2}

wherein Ar is an aromatic group, R¹ is selected from the group consisting of H₇, —NH-aryl-NH₂, —NH-aryl-alkyl-NH₂, —NH-alkyl-NH₂, or aminoalkyl wherein alkyl is a branched or straight chain radical having 4 to 24 carbon atoms, and R² is selected from the group consisting of —NH₂, —NH(CH₂)_n)_mNH₂, —CH₂-(CH₂)_n-NH₂, and —aryl-NH₂, in which n and m have a value of from 1 to 10, and R³ is selected from the group consisting of —H, alkyl, alkenyl, alkoxy, arylalkyl, and alkaryl having 4 to 24 carbon atoms and with the proviso that only one of R² and R³ has a terminal NH₂ group.

- 39. (ORIGINAL) The method of claim 33 wherein the vehicle includes an internal combustion engine having a crankcase and wherein the lubricant composition comprises a crankcase oil present in the crankcase of the vehicle.
- 40. (ORIGINAL) The method of claim 33 wherein the lubricant composition comprises a drive train lubricant present in an automotive drive train of the vehicle.
- 41. (ORIGINAL) A method for lubricating moving parts comprising contacting the moving parts with a lubricant composition containing a lubricant and a lubricant additive, the lubricant additive comprising an amination product of a hydrocarbyl substituted succinic acylating agent and a mixture containing an aliphatic polyamine and an aromatic polyamine, wherein the molar ratio of aliphatic polyamine to aromatic polyamine in the mixture ranges from about 10:0.1 to about 0.1:10, and wherein the amination product contains at least about 0.1 molar equivalent of the

polyamine mixture to 1 molar equivalent of the hydrocarbyl substituted succinic acylating agent.

- 42. (ORIGINAL) The method of claim 41 wherein the lubricant composition comprises a gear lubricant present in a gear box.
- 43. (ORIGINAL) The method of claim 41, wherein the aliphatic polyamine comprises a substantially linear aliphatic amine.
- 44. (ORIGINAL) The method of claim 41, wherein the hydrocarbyl substituted succinic acylating agent comprises a compound of the structure:

- 45. (ORIGINAL) The method of claim 44, wherein R comprises polyisobutylene (PIB).
- 46. (ORIGINAL) The method of claim 41, wherein a molar ratio of acylating agent to amino groups in the mixture ranges from about 1:1 to about 6:1.
- 47. (Previously submitted) The method of claim 41, wherein the aromatic polyamine comprises a compound selected from the group consisting of N-phenyl-phenylenediamine, N-naphthyl-phenylene diamine, and substituted aromatic polyamines of the structure:

$$R^{1}$$
 Ar $-N$ R^{2}

wherein Ar is an aromatic group, R^1 is selected from the group consisting of H_1 , $-NH_2$, -NH-aryl- NH_2 , -NH-aryl- NH_2 , -NH-aryl- NH_2 , -NH-alkyl- NH_2 or aminoalkyl wherein alkyl is a branched or straight chain radical having 4 to 24 carbon atoms, and R^2 is selected from the group consisting of $-NH_2$, $-NH(CH_2)_n)_mNH_2$, $-CH_2$ - $(CH_2)_n$ - NH_2 , and -aryl- NH_2 , in which n and m have a value of from 1 to 10, and R^3 is selected from the group consisting of -H, alkyl, alkenyl, alkoxy, arylalkyl, and alkaryl having 4 to 24 carbon atoms and with the proviso that only one of R^2 and R^3 has a terminal NH_2 group.

48. (ORIGINAL) An oil-soluble composition comprising a compound of the formula:

wherein R⁴ is selected from the group consisting of linear and branched polyolefins and substituted olefins wherein the olefin-substituent has the structure:

wherein R⁶ is selected from one or more linear or branched aliphatic polyamines, aromatic polyamino group derived from N-phenyl-1,4-phenylenediamine, N-phenyl-1,3-phenylenediamine, and N-phenyl-1,2-phenylenediamine, and mixtures thereof

and substituted aromatic polyamines of the structure:

$$R^{1}$$
 Ar $-N$

wherein R¹, R², and R³ are defined above, and R⁵ is selected from linear or branched aliphatic polyamines, aromatic polyamino group derived from N-phenyl-1,4-phenylenediamine, N-phenyl-1,3-phenylenediamine, and N-phenyl-1,2-phenylenediamine, and mixtures thereof and substituted aromatic polyamines of the structure:

$$R^{1}$$
 Ar N R^{2}

wherein R¹, R², and R³ are defined above, and substituted linear or branched aliphatic polyamines, wherein the substituent is selected from H, a hydrocarbyl-substituted succinic anhydride group, an amido acid group, and a diamido group.

49. (CURRENTLY AMENDED) The composition of claim 48, An oil-soluble composition comprising a compound wherein the compound is selected from the group consisting of bis-succinimide-di-amide-amines of the structure:

PIB

$$N \rightarrow C_X H_{2X} \rightarrow N \rightarrow Y C_X H_{2X} \rightarrow N \rightarrow C_X H_{2X} \rightarrow N$$
 $C = O$
 $C + C_X H_{2X} \rightarrow N \rightarrow Y C_X H_{2X} \rightarrow N$
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 $C = O$
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 $C = O$
 $C + C_X H_{2X} \rightarrow N \rightarrow Y C_X H_{2X} \rightarrow N$
 $C = O$
 $C + C_X H_{2X} \rightarrow N \rightarrow Y C_X H_{2X} \rightarrow N$
 $C = O$
 $C + C_X \rightarrow N \rightarrow Y C_X \rightarrow Y$

wherein PIB is polyisobutylene, x is an integer from 1 to 6, y is an integer from 1 to 10, R^2 is selected from the group consisting of $-NH_2$, $-NH(CH_2)_n)_mNH_2$, $-CH_2$ - $(CH_2CH_2)_n$ - NH_2 , and -aryl- NH_2 , in which n and m have a value of from 1 to 10, and R^3 is selected from the group consisting of -H, alkyl, alkenyl, alkoxy, arylalkyl, and alkaryl having 4 to 24 carbon atoms and with the proviso that only one - of -0 and -1 has a terminal -1 group; bis-succinimides containing an imide-amine substituted olefin of the structure:

$$\begin{array}{c|c} PIB & CH_3 & O \\ H_2C & C & \\ \hline \\ N & C_xH_{2x} - NH \xrightarrow{}_y C_xH_{2x} - NH - C_xH_{2x} - N \\ \hline \\ N & \\ R^2 \\ \hline \\ R^3 \end{array}$$

wherein PIB, x, y, R^2 , and R^3 are as defined above and bis-succinimide-amides containing an imide-amine substituted olefin of the structure:

wherein PIB, x, y, R^2 , and R^3 are as defined above, and R^7 is selected from the group consisting of H, amine salt, and a metal salt.

50. (CURRENTLY AMENDED) The composition of claim 48, wherin the compound comprises An oil-soluble composition comprising a bis-succinimide-amide containing an intramolecular-cyclized or intermolecular cross-linked amide-amine containing a structure represented by:

PIB
$$\begin{array}{c}
O \\
N \leftarrow C_{n}H_{2n} - NH \xrightarrow{}_{y} C_{n}H_{2n} - N - C_{n}H_{2n} - N \\
C = O
\end{array}$$

$$\begin{array}{c}
CH_{2} \\
CH_{2}
\end{array}$$

$$O = C \\
R^{8}$$

wherein R⁸ is bonded to a secondary nitrogen atom in a polyamine of a bissuccinimide.

51. (ORIGINAL) A lubricant additive containing the composition of claim 49.

- 52. (ORIGINAL) A lubricant containing the lubricant additive of claim 50.
- 53. (ORIGINAL) A fuel additive containing the composition of claim 49.
- 54. (ORIGINAL) A fuel containing the fuel additive of claim 52.
- 55-57. (CANCELED)
- 58. (NEW) A multi-functional composition for use as an additive for fuels and lubricants comprising a polyamine mixture and a bis-succinimide of the structure:

$$\begin{array}{c} O \\ N + C_x H_{2x} - NH + C_x H_{2x} - NH \end{array}$$

wherein x is an integer ranging from 1 to 6, and y is an integer ranging from 1 to 10, and PIB is a linear or branched polyisobutylene group; and wherein the polyamine mixture contains aliphatic and aromatic polyamines each having one or more amino groups and the molar ratio of aliphatic polyamine to aromatic polyamine in the mixture ranges from about 10:0.1 to about 0.1:10; and wherein the composition contains at least about 0.1 molar equivalent of the polyamine mixture to 1 molar equivalent of the bis-succinimide.

- 59. (NEW) The composition of claim 58, wherein the aliphatic polyamine comprises a substantially linear aliphatic polyamine.
- 60. (NEW) The composition of claim 58, wherein a molar ratio of bissuccinimide to amino groups in the mixture ranges from about 1:1 to about 6:1.
- 61. (NEW) A multi-functional composition for use as an additive for fuels and lubricants comprising a polyamine mixture and a compound of the structure:

wherein R^2 is selected from the group consisting of $-NH_2$, $-NH(CH_2)_n)_mNH_2$, $-CH_2-(CH_2CH_2)_n-NH_2$, and $-aryl-NH_2$, in which n and m have a value of from 1 to 10, and R^3 is selected from the group consisting of -H, alkyl, alkenyl, alkoxy, arylalkyl, and alkaryl having 4 to 24 carbon atoms; and wherein the polyamine mixture contains aliphatic and aromatic polyamines each having one or more amino groups and the molar ratio of aliphatic polyamine to aromatic polyamine in the mixture ranges from about 10:0.1 to about 0.1:10; and wherein the composition contains at least about 0.1 molar equivalent of the polyamine mixture to 1 molar equivalent of

the compound.

- 62. (NEW) The composition of claim 61, wherein the aliphatic polyamine comprises a substantially linear aliphatic polyamine.
- 63. (NEW) The composition of claim 61, wherein a molar ratio of the compound to the amino groups in the mixture ranges from about 1:1 to about 6:1.